

Antenna Specifications

SPW-B43143U

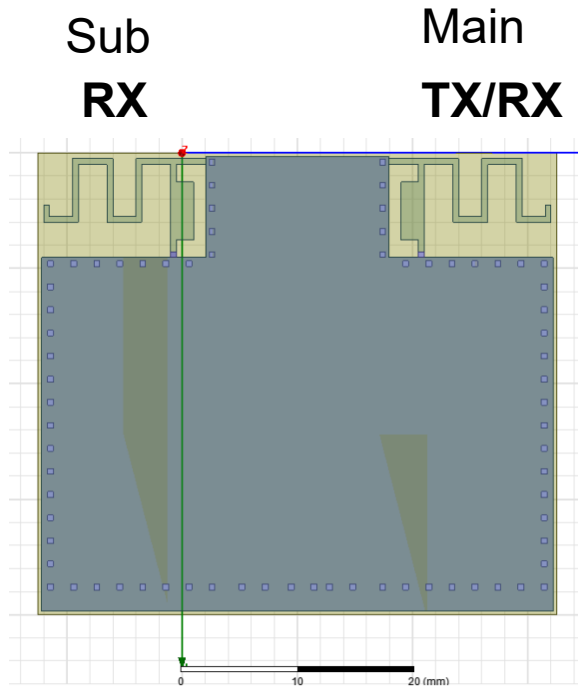
2026. 06. 10

Manufacturer: SJIT

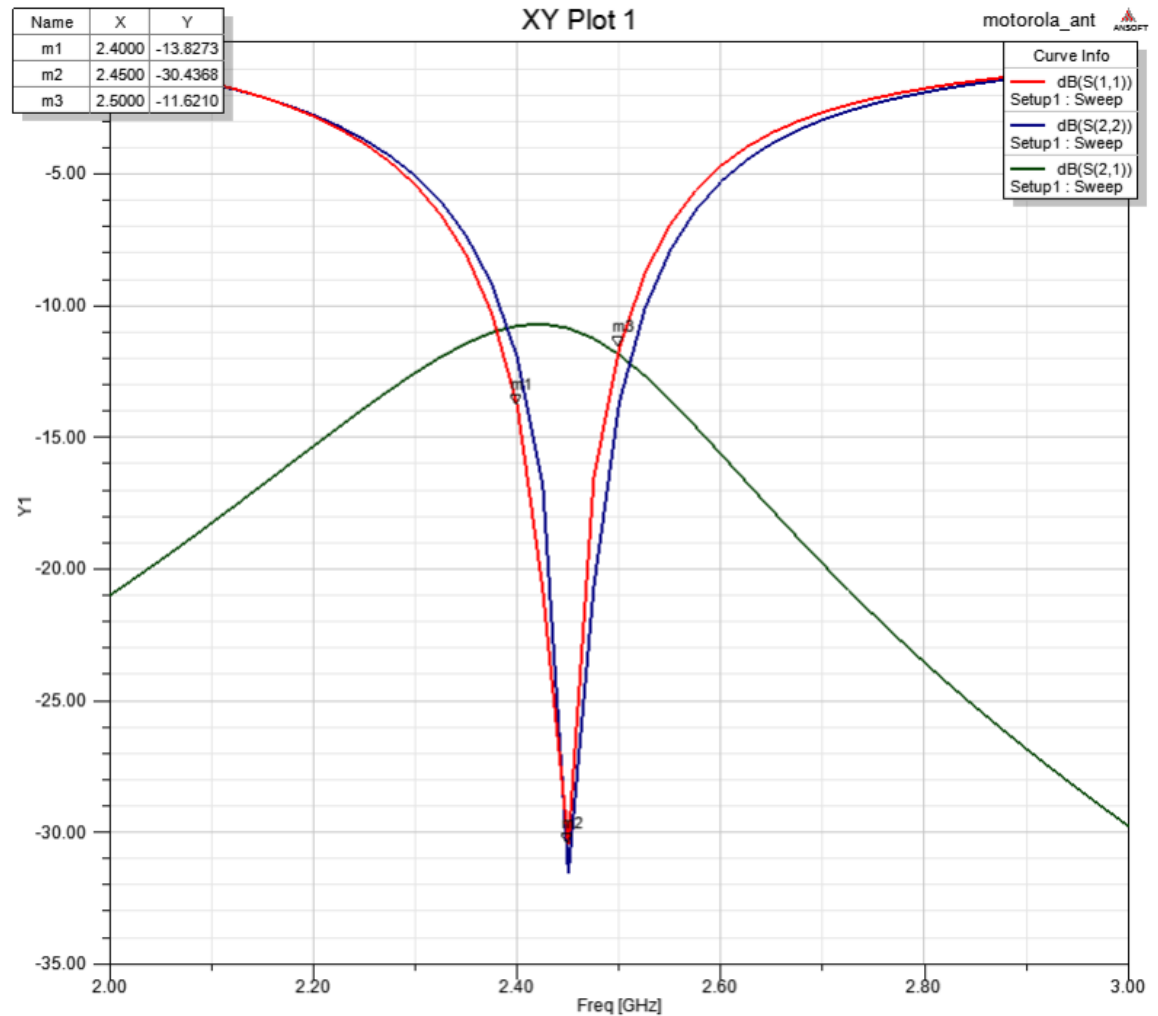
**Address: 54-11, Dongtanhana 1-gil, Hwaseong-si,
Gyeonggi-do, Republic of Korea54-11**

2. Return Loss

2-1. Return Loss



<Main Antenna >

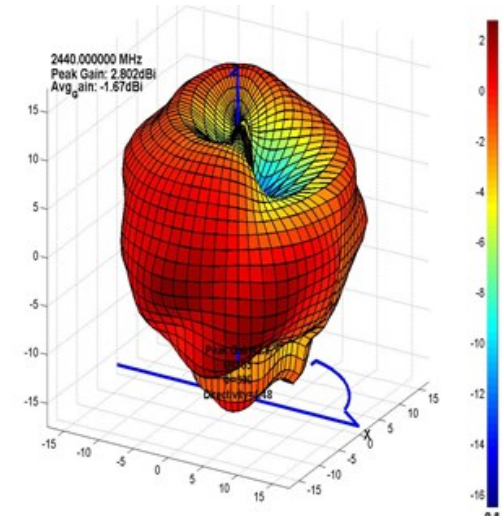


3. 3D Radiation Pattern

3-1. Main(TX/RX) Antenna

Antenna Pattern & Gain

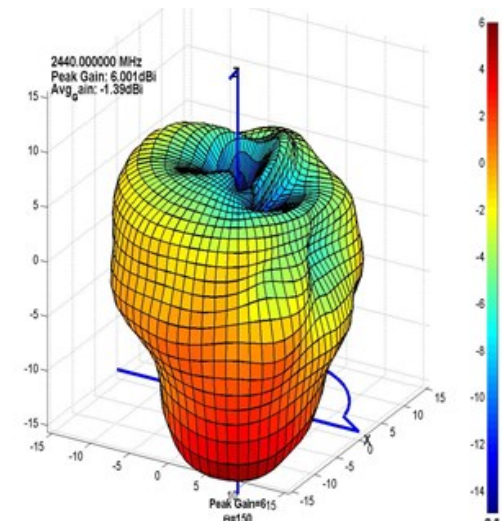
Frequency Range (MHz)	2400	2440	2480
Efficiency(%)	78.3	68.0	65.8
Avg Gain(dBi)	-1.1	-1.7	-1.8
Max Gain(dBi)	3.7	2.8	2.9



3-2. Sub(RX) Antenna

Antenna Pattern & Gain

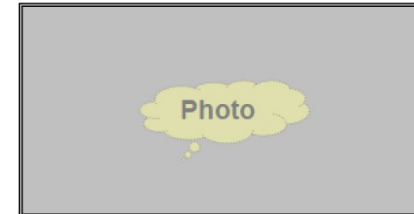
Frequency Range (MHz)	2400	2440	2480
Efficiency(%)	78.9	72.5	76.9
Avg Gain(dBi)	-1.0	-1.4	-1.1
Max Gain(dBi)	6.3	6.0	6.3



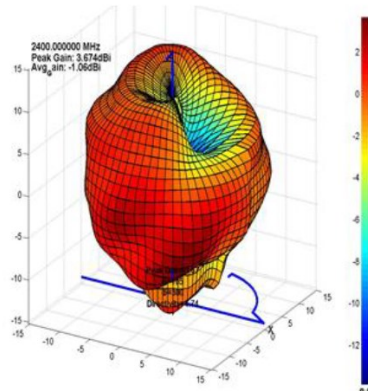
4. Main(TX/RX Antenna Efficiency

Antenna Pattern & Gain Report

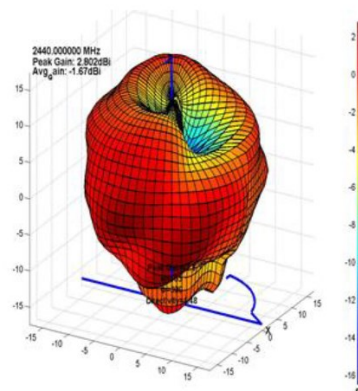
Manufacturer	Company Name
Model Name	Filename
Tester Name	Airlink
Test Date	2026-06-10 오후 5:31:23
IF BW	100 Hz
Port Power	0.00 dBm
Meas Step	15 °



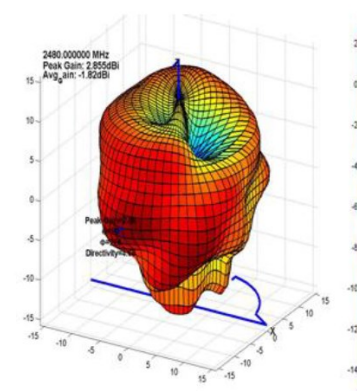
Frequency	Efficiency	Average Gain			Max Gain			Max Position	Directivity
		Ver	Hor	Total	Ver	Hor	Total		
2400.000000 MHz	78.3 %	-5.8 dBi	-2.9 dBi	-1.1 dBi	0.1 dBi	1.9 dBi	3.7 dBi	Theta105/Pie300	4.74 dB
2410.000000 MHz	70.1 %	-6.2 dBi	-3.4 dBi	-1.5 dBi	-0.3 dBi	1.4 dBi	3.2 dBi	Theta105/Pie300	4.70 dB
2420.000000 MHz	68.0 %	-6.3 dBi	-3.5 dBi	-1.7 dBi	-0.4 dBi	1.2 dBi	3.0 dBi	Theta105/Pie300	4.63 dB
2430.000000 MHz	71.4 %	-6.0 dBi	-3.3 dBi	-1.5 dBi	-0.1 dBi	1.3 dBi	3.1 dBi	Theta105/Pie300	4.55 dB
2440.000000 MHz	68.0 %	-6.1 dBi	-3.6 dBi	-1.7 dBi	-0.3 dBi	1.1 dBi	2.8 dBi	Theta105/Pie300	4.48 dB
2450.000000 MHz	58.4 %	-6.7 dBi	-4.3 dBi	-2.3 dBi	-0.9 dBi	0.4 dBi	2.2 dBi	Theta90/Pie270	4.49 dB
2460.000000 MHz	62.8 %	-6.2 dBi	-4.1 dBi	-2.0 dBi	-0.4 dBi	0.7 dBi	2.5 dBi	Theta90/Pie270	4.57 dB
2470.000000 MHz	60.0 %	-6.3 dBi	-4.4 dBi	-2.2 dBi	-0.5 dBi	0.4 dBi	2.4 dBi	Theta90/Pie270	4.65 dB
2480.000000 MHz	65.8 %	-5.7 dBi	-4.1 dBi	-1.8 dBi	0.1 dBi	0.7 dBi	2.9 dBi	Theta90/Pie270	4.68 dB
2490.000000 MHz	65.7 %	-5.6 dBi	-4.2 dBi	-1.8 dBi	0.3 dBi	0.6 dBi	2.9 dBi	Theta90/Pie270	4.72 dB



<2400MHz>



< 2440MHz>



<2480MHz>

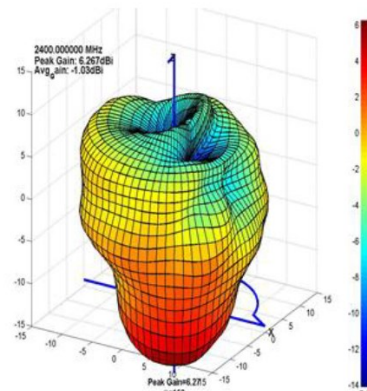
5. Sub(RX) Antenna Efficiency

Antenna Pattern & Gain Report

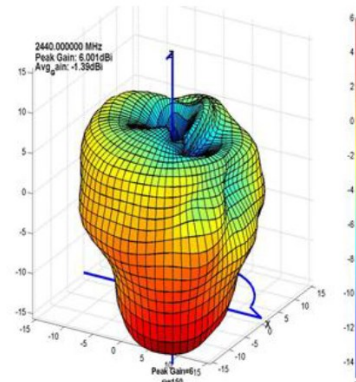
Manufacturer	Company Name
Model Name	Filename
Tester Name	Airlink
Test Date	2026-06-10 오후 5:38:59
IF BW	100 Hz
Port Power	0.00 dBm
Meas Step	15 `



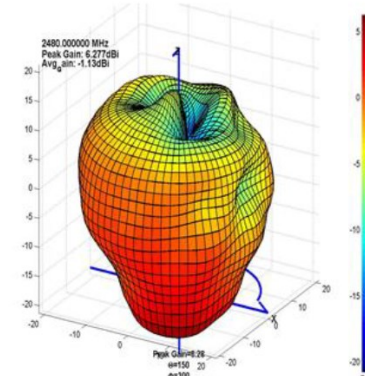
Frequency	Efficiency	Average Gain			Max Gain			Max Position	Directivity
		Ver	Hor	Total	Ver	Hor	Total		
2400.000000 MHz	78.9 %	-5.6 dBi	-2.9 dBi	-1.0 dBi	3.0 dBi	3.5 dBi	6.3 dBi	Theta150/Pie300	7.30 dB
2410.000000 MHz	72.8 %	-5.8 dBi	-3.3 dBi	-1.4 dBi	2.9 dBi	3.1 dBi	6.0 dBi	Theta150/Pie300	7.34 dB
2420.000000 MHz	72.1 %	-5.8 dBi	-3.4 dBi	-1.4 dBi	2.9 dBi	3.1 dBi	5.9 dBi	Theta150/Pie300	7.36 dB
2430.000000 MHz	75.0 %	-5.6 dBi	-3.2 dBi	-1.2 dBi	3.2 dBi	3.3 dBi	6.1 dBi	Theta150/Pie300	7.37 dB
2440.000000 MHz	72.5 %	-5.7 dBi	-3.4 dBi	-1.4 dBi	3.1 dBi	3.1 dBi	6.0 dBi	Theta150/Pie300	7.40 dB
2450.000000 MHz	64.5 %	-6.3 dBi	-3.9 dBi	-1.9 dBi	2.7 dBi	2.6 dBi	5.5 dBi	Theta150/Pie300	7.37 dB
2460.000000 MHz	70.2 %	-5.9 dBi	-3.5 dBi	-1.5 dBi	3.0 dBi	2.9 dBi	5.8 dBi	Theta150/Pie300	7.35 dB
2470.000000 MHz	68.4 %	-6.0 dBi	-3.6 dBi	-1.7 dBi	3.0 dBi	2.7 dBi	5.7 dBi	Theta150/Pie300	7.32 dB
2480.000000 MHz	76.9 %	-5.5 dBi	-3.1 dBi	-1.1 dBi	3.5 dBi	3.2 dBi	6.3 dBi	Theta150/Pie300	7.42 dB
2490.000000 MHz	75.7 %	-5.6 dBi	-3.2 dBi	-1.2 dBi	3.4 dBi	3.1 dBi	6.2 dBi	Theta150/Pie300	7.37 dB



<2400MHz>



< 2440MHz>



<2480MHz>

6. Electrical Specifications

4-1. Main Antenna

Type		Main Antenna_Linear
Spec	Frequency Range (MHz)	2400~2480
	Peak. Gain (dBi)	2.2 ~ 3.7
	Avg. Gain (dBi)	-2.3 ~ -1.1
	Efficiency (%)	58.4 ~ 78.3
	Impedance (Ω)	50
	VSWR	Max : 2.0

4-2. Div Antenna

Type		Div Antenna_Linear
Spec	Frequency Range (MHz)	2400~2480
	Peak. Gain (dBi)	5.5 ~ 6.3
	Avg. Gain (dBi)	-3.9 ~ -2.9
	Efficiency (%)	64.5~ 78.9
	Impedance (Ω)	50
	VSWR	Max : 2.0